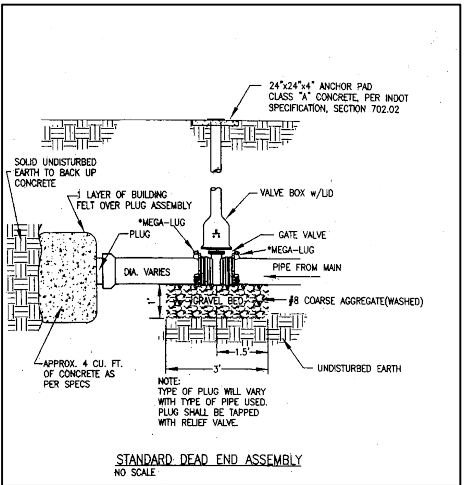


*THE JOINT RESTRAINT DEVICES SHALL BE THE MEGALUG SERIES 1100 AS PRODUCED BY EBAA IRON INC. OR AN APPROVED EQUAL. THESE RESTRAINTS SHALL CONFORM TO EITHER ANSIAWWA C111/A2.1.11 OR ANSIAWWA C153/A2.1.53.

MEGA-LUG SERIES 1100

NOMINAL PIPE SIZE	SERIES NUMBER	WEDGE QTY.	BOLT QTY.	WEIGHT LBS.	PRESSURE RATING
3"	1103	2	4	6.1	350 PSI
4"	1104	2	4	7.6	350 PSI
6"	1106	3	6	11.8	350 PSI
8"	1108	4	8	14.9	350 PSI
10"	1110	6	8	23.9	350 PSI
12"	1112	6	8	31.2	350 PSI

NOTE: MEGA-LUG SERIES 1100 FITTING NOMINAL PIPE SIZES 3" THRU 12" HAVE A DEFLECTION CAPACITY OF 3 DEGREES.



HOUSE SERVICE BY OTHERS

PIPE FOR AIR INSTALLATION

PIPE FOR SINGLE METER INSTALLATION FIT DIA. IS 20"

CRIBBLE

1'-4"

NOTE: UNLESS SPECIFICALLY SHOWN OTHERWISE, TUBING SHALL BE INSTALLED TO 10' DEPTH, NOT ON 12" BARS AND LEFT WITH END PROTRUDING 12" ABOVE GROUND WITH ENDS TWICED.

PLAN

NO SCALE

SECTION

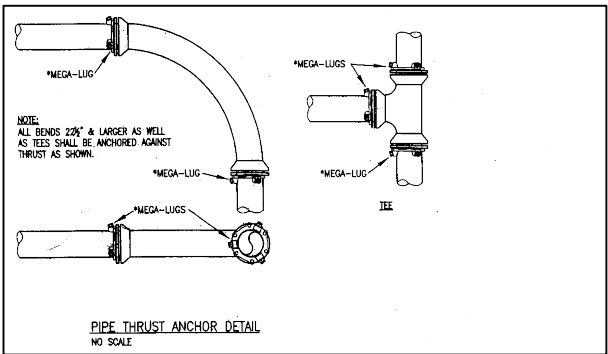
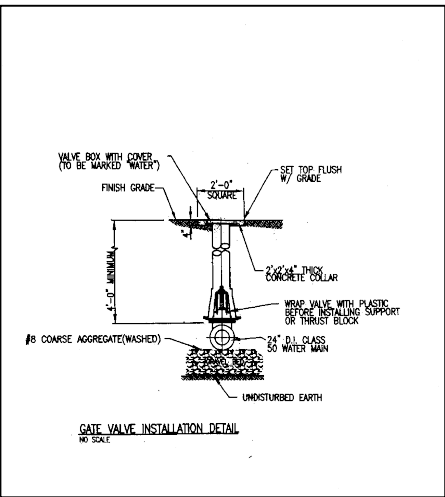
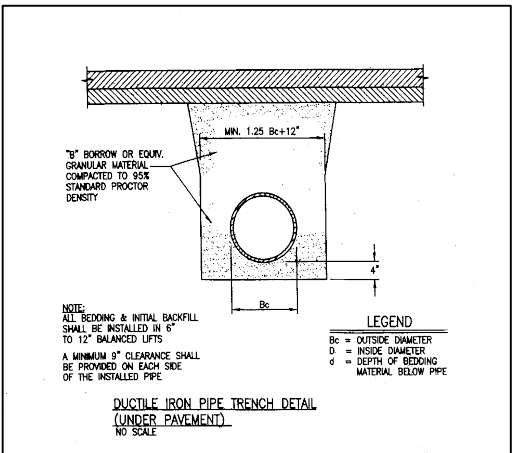
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1" SERVICE PARTS

QTY	DESCRIPTION	STOCK #
1 ea.	1" Corporation (Ford)	#F600-4 0501
1 ea.	1" Corp Ell 90 or 45 degree (Ford)	#L02-44/LA02-44 0505 OR 0503
1 ea.	1" Angle Valve (Ford)	#BA92-444W 0514
1 ea.	1" Yoke Bar (Ford)	#Y504 0529
1 ea.	1" Yoke Ell (Ford)	#L92-44 0519
1 ea.	Meter Tile	(Fraco) 1111
1 ea.	20" Ring & Lid - small nut (Ford)	#X-3 1120

2" SERVICE

DESCRIPTION	QTY.	MANUFACTURER / ITEM#
8" X 2" Service Saddle	1 Ea.	Ford F202-979-CC7
2" Corporation	1 Ea.	Ford FB1600-7
Meter Setter	1 Ea.	Ford VBB77-15B-11-77
2" Male Fittings	2 Ea.	Ford C84-77
36" Meter Tile	1 Ea.	
36" Monitor Ring	1 Ea.	
26" Ring & Lid	1 Ea.	Ford # 10



SANITARY SEWER NOTES:

UNLESS SPECIFICALLY SUBSTITUTED IN SPECIAL PROVISIONS

1. TOP OF WATER MAIN TO BE PLACED AT MINIMUM OF 48" BELOW FINISHED GRADE.
2. FIRE HYDRANTS TO BE LOCATED 2.0' FROM BACK OF WALK & ON LOT LINES UNLESS OTHERWISE NOTED ON PLANS.
3. ALL WATER LINE TO BE PLACED IN AN AREA BETWEEN BACK OF CURB AND FACE OF WALK. ALL VALVES AND TEES TO BE LOCATED WITHIN 5' OF LOT LINES AND ARE NEVER TO BE PLACED UNDER PAVEMENT.
4. ALL WATER LINE TO BE ANSI/AWWA C151/A21.51 BITUMINOUS COATED DUCTILE IRON PIPE. THE PIPE INTERIOR SHALL BE CEMENT MORTAR LINED AND SEAL COATED IN COMPLIANCE WITH THE LATEST REVISION OF ANSI/AWWA C104/A21.4
5. WHERE WATER AND SEWER LINES CROSS AND AN 18" MINIMUM VERTICAL SEPARATION CANNOT BE MAINTAINED, THE SEWER LINE MUST BE CONSTRUCTED OF WATERWORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR ASTM D3034 SDR21 PVC SEWER PIPE WITH GASKETED, COMPRESSION TYPE JOINTS WITHIN 10' OF THE WATER LINE.
6. IF PARALLEL WATER AND SEWER LINES DO NOT MAINTAIN A 10' MINIMUM SEPARATION, THEN THE SEWER LINE MUST BE CONSTRUCTED OF WATERWORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR ASTM D3034 SDR21 PVC SEWER PIPE WITH GASKETED, COMPRESSION TYPE JOINTS.
7. PERIODIC OBSERVATION OF WORK IN PROGRESS MAY BE PROVIDED BY COLUMBUS CITY UTILITIES. THE COLUMBUS CITY UTILITIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO HIS STARTING WORK AND PRIOR TO RESTARTING WORK AFTER DELAYS OR SHUT-DOWNS.
8. ALL WATER MAIN CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE COLUMBUS CITY UTILITIES WATER HANDBOOK.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES IN THE CONSTRUCTION AREA AND VERIFY THE LOCATION OF EXISTING WATER MAINS.
10. ALL NUTS AND BOLTS ARE TO BE STAINLESS STEEL.

SANITARY SEWER NOTES:

CERTAIN ITEMS IN THESE PLANS ARE IDENTIFIED BY SPECIFIC MODEL OR ITEM NUMBERS AS SUPPLIED BY NAMED MANUFACTURERS. THE ITEMS ARE SO SPECIFIED BECAUSE THEY EXHIBIT A PERFORMANCE STANDARD REQUIRED BY THE SPECIFIC SITE CONDITIONS. THESE ITEMS MAY ONLY BE SUBSTITUTED IF THE CONTRACTOR MAKES WRITTEN REQUEST OF THE DESIGNER, STATING THE MANUFACTURER AND MODEL OR ITEM NUMBER OF THE REQUESTED REPLACEMENT OF THE SPECIFIED ITEM. SUBSTITUTION MAY OCCUR AFTER THE CONTRACTOR RECEIVES WRITTEN APPROVAL FROM BOTH THE DESIGNER AND ALL APPROVING AGENCIES.



DWN BY: AJB

REVISIONS	DATE	BY

DATE: 12/23/2014

SCALE: N.T.S.

CITY OF COLUMBUS
OFFICE OF CITY ENGINEER
123 WASHINGTON STREET
COLUMBUS, INDIANA 47201

SHEET TITLE:

WATERMAIN, METER, AND HYDRANT
TYPICAL DETAILS AND NOTES

CERT.

FILE:

SHEET:

JOB No.

OF:

DRG. No.